## PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY				WIPO PCT		
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see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)  Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)		
	cant's or agent's file			FOR FURTHER ACTION		
see	form PCT/ISA/2:	20		See paragraph 2 below		
International application No. PCT/GB2004/050022			International filing date (a 28.10.2004	(day/month/year) Priority date (day/month/year) 12.11.2003		
International Patent Classification (IPC) or both national classification and IPC H01L21/20, C30B25/04						
Appli UN!	cant VERSITY OF W	ARWICK				
~1	This opinion co	ntains indication	ons relating to the follo	owing items:		
	☑ Box No. I	Basis of the op	pinion			
	☐ Box No. II	Priority				
	☐ Box No. III		nent of opinion with rega	rd to novelty inventiv	e step and industrial applicability	
	☐ Box No. IV	Lack of unity o			e step and industrial applicability	
	⊠ Box No. V	Reasoned stat		.1(a)(i) with regard to a supporting such state	novelty, inventive step or industrial	
	🖾 Box No. VI	Certain docum				
	☐ Box No. VII	Certain defects	s in the international app	lication		
	🛛 Box No. VIII		ations on the internation			
ž.	FURTHER ACTION					
	a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the international Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
	this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					

Name and mailing address of the ISA:



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For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

**Authorized Officer** 

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/050022

	Box No. I Basis of the opinion			
	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.			
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).			
f y ≜ v	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
	a type of material:			
	a sequence listing			
	table(s) related to the sequence listing			
	b. format of material:			
	in written format			
	in computer readable form			
	c. time of filing/furnishing:			
	contained in the international application as filed.			
	filed together with the international application in computer readable form.			
	furnished subsequently to this Authority for the purposes of search.			
er e Se Seer e	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
4.	Additional comments:			

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/050022

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement

Novelty (N)

Yes: Claims

1-17

No: Claims

Inventive step (IS)

Yes: Claims

1-17

No: Claims

Industrial applicability (IA)

Yes: Claims

1-17

No: Claims

Citations and explanations

see separate sheet

## Box No. VI Certain documents cited

Certain published documents (Rules 43bis.1 and 70.10)

and 'or

Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

## Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item V.

The following documents are referred to in this communication:

D1: WO-A-03/054937

D2: WO-A-02/064864

D3: US 2003/183827 A1

D4: US 2003/139037 A1

None of the cited documents discloses are method of forming a layer on a substrate in which an isolating layer is formed having a window and a depression in the vicinity of the window, and in which a semiconductor layer is grown by selective epitaxy from the window into the depression to completely fill the depression (cf. item VIII). This is also not rendered obvious by these documents.

Thus, the subject-matter of claim 1 is considered to meet the requirements of Article 33 PCT.

Claims 2-17 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

### Re Item VI.

EP-A-1 363 318 EP-A-1 367 150

### Re Item VIII.

The subject-matter of claim 1 is ambiguous and therefore not clear (Article 6 PCT) with regard to the growth of semiconductor material in the depression. Claim 1 specifies only that the semiconductor material should extend into the depression but does not specify that the depression should be completely filled as apparent from the description.

The respective clarification is also necessary to clearly distinguish the subject-matter of claim 1 over the prior art, see e.g. D4, figure 7.